COURSE TITLE: PATHOLOGY  
STUDY HOURS: 80+40  
MARKS  
PAPER: 1  
THEORY: 80  
TERM: 2\textsuperscript{nd}  
PRACTICAL: 20  
TIME: 2.30 HRS

The following pathology contents will be taught briefly.

<table>
<thead>
<tr>
<th>COURSE CONTENTS</th>
<th>STUDY HOURS</th>
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<td>(THEORY+PRACTICAL)</td>
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Introduction:

A. Pathology  
A1 Definition  
A2 Branches

B. Core of pathology  
B1 Etiology  
B2 Pathogenesis  
B3 Morphologic changes  
B4 Clinical significance

C. Disease  
C1 Definition  
C2 Classification  
C3 Cytology  
C4 Biopsy

D. Cell injury:  
D1 Normal Cell and Structure of Cell  
D2 Cellular adaptation (introduction)  
D2.1 Hyperplasia  
D2.2 Hypertrophy  
D2.3 Atrophy  
D2.4 Metaplasia  
D2.5 Distribution of body Epithelium  
D3 Cell Injury  
D3.1 Types  
D3.2 Causes  
D4 Necrosis  
D4.1 Definition  
D4.2 Types
D4.2Mechanism of Necrosis

D5 Pigmentation
D5.1 Definition
D5.2 Types

D6 Pathologic calcification
D6.1 Definition
D6.2 Types
D6.3 Causes Of Hyper calcification

D7 Gangrene
D7.1 Definition
D7.2 Causes
D7.3 Types
D7.4 Complication

E Inflammation 12+4

E1 Definition
E2 Advantage and Disadvantage of inflammation
E3 Types
E4 Acute Inflammation
  E4.1 Definition
  E4.2 Changes in acute inflammation
  E4.3 Clinical signs of actual inflammation
  E4.4 Outcome of Ac inflammation
  E4.5 Type of inflammatory cell
  E4.6 Secquence of Cellular Events

E5 Chronic Inflammation D5.1 Definition
E5.1 Causes
E5.2 Types
E5.3 Outcome of Ch.Inflammation.
E5.4 Difference between Ac. & Ch. Inflammation

F Repair: 8+2

F1 Definition Process of repair
F2 Capacity of Different cell Type
F3 Healing by First. Intention (introduction)
F4 Healing by 2nd Intention (introduction)
F5 Difference between 1st & 2nd intention
F6 Factors affecting wound healing
  F6.1 Systemic
  F6.2 Local
F7 Complication of wound healing

G Homodynamic Disorder 12+4

G1 Edema
  G1.1 Definition and pathogenesis
G1.2 Mechanism of edema
G1.3 Causes
G1.4 Types
G1.5 Clinical effects

G2 Hyperemia & Congestion
G2.1 Definition
G2.2 Causes

G3 Hemorrhage
G3.1 Definition
G3.2 Causes
G3.3 Clinical Features

G4 Thrombosis
G4.1 Definition
G4.2 Types (morphological, clinical)
G4.3 Fate of thrombus

G5 Embolism
G5.1 Definition
G5.2 Clinical Effects
G5.3 Classification

G6 Infarction
G6.1 Definition
G6.2 Causes
G6.3 Types
G6.4 Predisposing factors

H. Shock
H1 Definition
H2 Types
H3 Stages

K Disorders of immunity
K1 Immunity Definition
K2 Types
K3 Antigen
K4 Antibody & types
K5 Cells of Immune system (introduction)
K6 Hypersensitivity Reactions (introduction)

L Neoplasia
L1 Definition
L2 Neoplasia
L3 Neoplasm
L4 Oncology

L5 Dysplasia
L5.1 Definition
L5.2 Causes
L5.3 Sites
L5.4 Clinical significance

L6 Types of neoplasm
L6.1 Benign
L6.2 Malignant
L6.3 Different Between Benign and malignant Tumors

L7 Nomenclature of Neoplasm

L8 Spread of Neoplasm
L9 Staging & Grading of Neoplasm
L10 Clinical features of Neoplasm
L11 Difference between benign & Malignant Neoplasm
L12 Carcinogens and its types

M Microbiology

M1 Parasite

M2 Parasitology
M2.1 Definition
M2.2 Classification of Parasites

M3 Virology
M3.1 Definition
M3.2 Classification of viruses

M4 Bacteriology
M4.1 Definition
M4.2 Classification of Bacteria

Recommended book: Textbook of Pathology by Inam Danish
Textbook of Pathology by Ferdous

Reference book:  General Pathology by Walter and Israel